

PREFER DATA SHEET

of SMD Rigid LED Strips

PR2835W49A24-W12-LEP

Single Color Series

DC24V (49leds/pc)

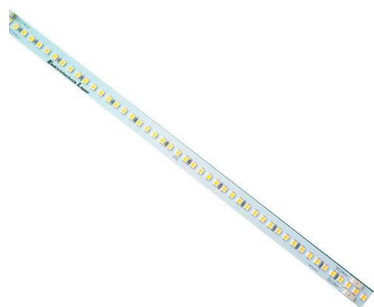
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The Strip is made by Rigid Circuit Board and 2835 0.5W LED Single color Chip.

Also it is high efficiency design and fast connect for installation, you could connect them easily at required quantity for your project. The strip has single color (include: Cool White, Natural White, Warm White).

The Strip is passed CE,ROHS. Suitable for indoor lighting application.

1,Product Features:



- ◆ Input voltage: DC 24V
- ◆ 280mm per piece
- ◆ Width of Strip:12mm
- ◆ 49 leds per piece
- ◆ 7 LEDs per group
- ◆ LED Life time: 25K hours at 65°C
- ◆ Storage temperature: -30°C ~ +80°C
- ◆ Humidity: 40% ~ 70% R
- ◆ Operating temperature: -20 °C ~ +65 °C
- ◆ IP Rate: IP 20
- ◆ CRI>80
- ◆ Two Years Warranty
- ◆ IES and Integrating sphere test report available
- ◆ Light Source: 2835 0.5W SMD LED

2,Product Information:

| Part No. | Color | Luminous Flux/pc | LED qty/ piece. | Color temperature/Voltage | | Operating Current | Max power (meter) | View angle |
|----------------------|---------------|------------------|-----------------|---------------------------|-------|-------------------|-------------------|------------|
| PR2835W49A24-W12-LEP | Natural white | 1130lm | 49 | 4000k | DC24V | 0.35A/pc | 8.4W | 120 |

Standard Color Temperature

- ▶ Natural White:4000K
- ▶ Cool White:6000K-7000K



- ▶ RGB Red Green Blue Yellow

Standard Color Temperature:

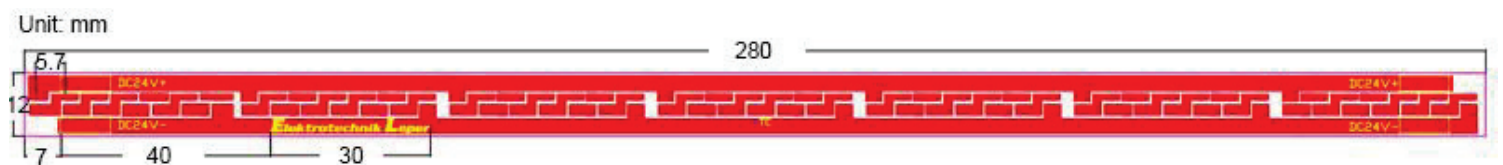
- ▶ 2200K- / 2700K / 3000K/3500K/4000K
- ▶ 5000K/6000K

Color temperatures comply with the standard of Step
MacAdam 3

3, Application:

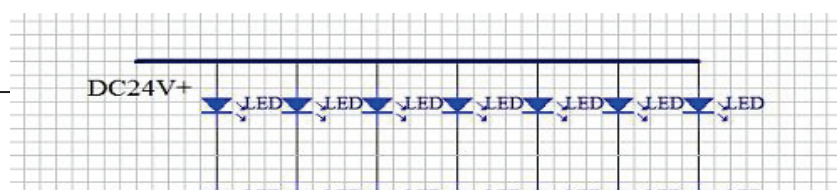
- ◆ Office(workplace illumination, corridor).
- ◆ Commercials(indoor car park).
- ◆ Industry(storage, warehouse, retail).
- ◆ Public area(corridor, stairs, subway).

4,Dimension Drawing



Remark:

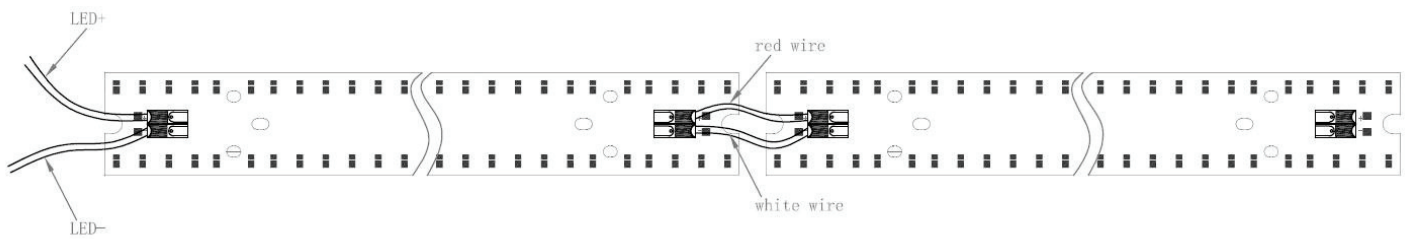
- A. All dimensions are in millimeter.
- B. Tolerance of measurement is $\pm 0.05\text{mm}$ unless others otherwise noted.



5.Circuit Diagram

6, Connecting operation:

4 pieces connection.



7, Package

- A, 1 piece into 1 plastic bag.
- B, 200-300pcs into 1 carton.



CAUTIONS

Exploitation conditions

1. In order to guarantee that the LED life and the use environment, cannot make any force when the product lighting use to pull the power cables, forbids to collide, in order to avoid damages LED.
2. For can better lighting effect of the product, each 5 meter long strip must connect the main power source.
3. Must guarantee that each power source (GND) must connect.
4. Should not be curving in the diameter 60mm following radian, please do not rebate, in order to avoid damage lamp bead or break.

Storage

1. The Flexible SMD Strip should be stored at stored at 0 °C ~ +60 °C or less and 40% ~ 70% RH or less after being shipped and the storage life limits are 3 months.
2. If the Flexible SMD Strip is stored more then 3 months, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
3. Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

Static Electricity

1. Static electricity or surge voltage damages the Flexible SMD Strip.
2. It is recommended that a wristband or an anti-electrostatic glove be used when handling the Flexible SMD Strip.
3. All devices, equipment and machinery must be properly grounded.
4. It is recommended that measures be taken against surge voltage to the equipment that mounts the Flexible SMD Strip.

Heat Generation

1. Thermal design of the end product was most importance. Please consider the heat generation of the Flexible SMD Strip when making the system design.
2. The thermal resistance of the circuit board and density of Flexible SMD Strip placement on the board, as well as other components was the important factor affecting the coefficient of temperature increase per input electric power.
3. It must be avoid intense heat generation and operate within the maximum ratings given in the specification.
4. The operating current should be decided after considering the ambient maximum temperature of Flexible SMD Strip.

Others

1. Care must be taken to ensure that the reverse voltage will not exceed the absolute maximum rating when using the Flexible SMD Strip with matrix drive.
2. The Flexible SMD Strip described in this brochure is intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult PREFER LED Lighting's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the Flexible SMD Strip may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).
3. User shall not reverse engineer by disassembling or analysis of the Flexible SMD Strip without having prior written consent from PREFER LED Lighting. When defective Flexible SMD Strip is found, the User shall inform PREFER LED Lighting directly before disassembling or analysis.



WARNING

- Please note the careful operation, in the power source connection's situation, will touch the alternating current supply end possibly to cause your safety.
- In the actual application, the power source should retain 20% remainders, guaranteed that the sufficiency the voltage lightens LED.
- Installs as far as possible the product in the appropriate environment.
- Pays attention to the power cable in the installment process positive and negative extremely, please do not wrong, power source and product voltage to be whether correct, in order to avoid creates the product the damage.

